CLASSIFICATION OF SUBJECT MATTER PC 7 F16L19/028 B21D B21D41/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16L B21D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. X GB 453 217 A (HANS KAATZ) 1-3,5-8,19 March 1936 (1936-03-19) 11,12,14 page 1, line 69 - page 2, line 5 page 2, line 21 - line 27 page 2, line 68 - line 71; figure 9 US 5 893 591 A (EBEL ET AL) X 1-3,5,6,13 April 1999 (1999-04-13) column 1, line 4 - line 15; figures X FR 1 141 975 A (VALENTIN ET AL) 1-4,8,912 September 1957 (1957-09-12) page 1, paragraph 15 - paragraph 17 page 2, paragraph 9; figures 10,12,13 X US 5 570 603 A (CHATTERLEY ET AL) 15 5 November 1996 (1996-11-05) column 3, line 59 - column 4, line 32; Α 12 figures 5-11 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled *O* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed in the art. *&* document member of the same patent family Date of the actual completion of the International search Date of mailing of the international search report 3 May 2005 17/05/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Cross, A Fax: (+31-70) 340-3016

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